



UNITED STATES
PATENT AND
TRADEMARK OFFICE



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10547-015-999

FEBRUARY 06, 2002

PTAS

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Washington, DC 20231
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PENNIE & EDMONDS LLP
BRETT LOVEJOY
3300 HILLVIEW AVENUE
PALO ALTO, CA 94304



101917125A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/06/2001

REEL/FRAME: 012363/0926
NUMBER OF PAGES: 13

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
BOLLAY, BENN ✓

DOC DATE: 11/16/2001

ASSIGNOR:
DONAHUE, DAVID B. ✓

DOC DATE: 11/10/2001

ASSIGNOR:
KOLLI, VINAI ✓

DOC DATE: 11/27/2001

ASSIGNOR:
OBENHUBER, THOMAS ✓

DOC DATE: 11/19/2001

ASSIGNEE:
HUGHES ELECTRONICS CORPORATION. ✓
200 N. SEPULVEDA BLVD.
EL SEGUNDO, CALIFORNIA 90245-0956

SERIAL NUMBER: 10006364
PATENT NUMBER:

FILING DATE: 12/06/2001
ISSUE DATE:

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MAY 23 2003

Technology Center 2600



12-18-2001

Express Mail No. EL 340 684 964 US

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Attorney Docket Number
10547-0015-999

TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS

Box Assignment
Washington, DC 20231

12/06/01

Please record the attached original documents or copy thereof.

11000 U.S. PTO
10/06364
12/06/01

1. Name of conveying party(ies):

Benn Bollay
David B. Donahue
Vinai Kolli
Thomas Obenhuber

2. Name and address of receiving party(ies):

Name: Hughes Electronics CorporationAddress: 200 N. Sepulveda Blvd.
El Segundo, CA 90245-0956

Country (if other than USA): _____

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____Execution Date: November 16, 19, and 27, 2001

RECEIVED

MAY 23 2003

Technology Center 2600

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: November 16, 19, and 27, 2001

A. Patent Application No.(s) _____

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

PENNIE & EDMONDS LLP
3300 Hillview Avenue
Palo Alto, CA 943046. Number of applications and patents involved: 17. Total fee (37 CFR 3.41):.....\$ 40.00
Please charge to the deposit account listed in Section 8.8. Deposit account number:
16-1150 (order no. 10547-0020-999)

DO NOT USE THIS SPACE

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Brett Lovejoy

42,813

for Thomas D. Kohler

32,797

Name of Person Signing

Reg. No.

Signature

December 6, 2001

Date

Total number of pages including cover sheet:

13

12/14/2001 6TON11 00000117 161150 10006364

01 FC:581

40.00 CH

Mail documents to be recorded with required cover sheet information to:
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Washington, D.C. 20231

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HUGHES

ASSIGNMENT

Page 1 of 5
Attorney Docket No.: 10547-0015-999
PD-201121

WHEREAS, I, as below named sole inventor (if only one name is listed below) or joint inventor (if plural names are listed below) of the city and state as stated below next to my name, have invented, **"VIRTUAL PORT BRIDGE"** for which application for Letters Patent of the United States has been executed by me on this day, or (if the following is completed) filed on _____ as Serial No. _____; and

WHEREAS, **HUGHES ELECTRONICS CORPORATION**, (hereinafter referred to as **HUGHES**), a Delaware Corporation, having its principal place of business in El Segundo, California, is desirous of acquiring the entire and exclusive right, title and interest in, to and under said invention, said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world;

NOW, THEREFORE, in consideration of the obligations voluntarily assumed by me and set forth in an invention agreement between me and my employer, effective the date as stated below next to my name, and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign and transfer to **HUGHES**, its successors, assigns or other legal representatives, the entire and exclusive right, title and interest in and to said invention invented by me, to said application and any and all applications which are continuations, continuations-in-part, divisions or substitutes of said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world on any of said applications and to any and all reexaminations, reissues, renewals or extensions of said Letters Patent in the United States and throughout the world for the full term or terms for which said Letters patent may be granted in the United States and throughout the world; authorize and request The Commissioner of Patents and Trademarks of the United States and all foreign countries to issue all such Letters Patent to said **HUGHES**, its successors, assigns or other legal representatives; covenant that no assignment, sale, agreement, transfer or encumbrance has been, or will be, made or entered into which would conflict with this assignment, sale and transfer; and agree to communicate to **HUGHES**, its successors, assigns or other legal representatives, upon request and at no cost or expense to me, any facts known by me respecting said invention, do all lawful acts, including the execution and delivery of all papers and proper oaths and giving of testimony that is deemed necessary or desirable by **HUGHES**, its successors, assigns or other legal representatives with regard to said invention for protecting, obtaining, maintaining and enforcing any and all of said Letters Patent in the United States and throughout the world for said invention and for perfecting, affirming, recording and maintaining the title of **HUGHES**, its successors, assigns or other legal representatives, and generally cooperate to the fullest extent in all matters pertaining to said invention, and any and all of said Letters Patent and the title thereto in **HUGHES**, its successors, assigns or other legal representatives.

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JACQUELINE MOORE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

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ASSIGNMENT
Attorney Docket No.: 10547-0015-999
PD-201121
Page 2 of 5

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR Benn Bollay	INVENTOR'S SIGNATURE 	DATE 11-16-01
RESIDENCE (CITY AND STATE) San Francisco, California	INVENTION AGREEMENT DATE 03/17/00	

STATE OF California)

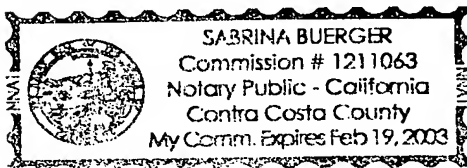
COUNTY OF Santa Clara)

SS:

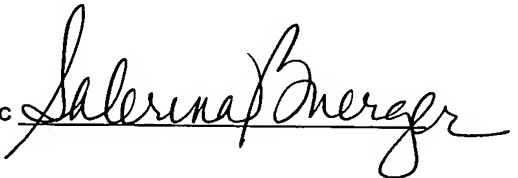
On November 16, 2001 before me, Sabrina Buerger
a Notary Public in and for said State, personally appeared
Benn Bollay

personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.




Notary Public



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ASSIGNMENT
Attorney Docket No.: 10547-0015-999
PD-201121
Page 3 of 5

FULL NAME OF SOLE OR JOINT INVENTOR David B. Donahue	INVENTOR'S SIGNATURE 	DATE 11-16-01
RESIDENCE (CITY AND STATE) Mountain View, California	INVENTION AGREEMENT DATE 01/26/00	

STATE OF California)

COUNTY OF Santa Clara)

SS:

On November 16th, 2001 before me, Sabrina Buerger

a Notary Public in and for said State, personally appeared
David B. Donahue

personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Notary Public Sabrina Buerger

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Attorney Docket No.: 10547-0015-999
PD-201121
Page 4 of 5

FULL NAME OF SOLE OR JOINT INVENTOR Vinal Kolli	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) Fremont, California	INVENTION AGREEMENT DATE 01/19/99; 07/21/99 and 01/02/01	

STATE OF _____)

) SS:

COUNTY OF _____)

On _____ before me, _____

a Notary Public in and for said State, personally appeared

Vinal Kolli

personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public _____

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Attorney Docket No.: 10547-015-999
PD-201121
Page 5 of 5

FULL NAME OF SOLE OR JOINT INVENTOR Thomas Obenhuber	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) San Francisco, California	INVENTION AGREEMENT DATE 07/07/98	

STATE OF _____)
COUNTY OF _____) SS:

On _____ before me, _____
a Notary Public in and for said State, personally appeared
Thomas Obenhuber

personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public _____

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Page 1 of 5
Attorney Docket No.: 10547-0015-999
PD-201121

WHEREAS, I, as below named sole inventor (if only one name is listed below) or joint inventor (if plural names are listed below) of the city and state as stated below next to my name, have invented, "VIRTUAL PORT BRIDGE" for which application for Letters Patent of the United States has been executed by me on this day, or (if the following is completed) filed on _____ as Serial No. _____; and

WHEREAS, HUGHES ELECTRONICS CORPORATION, (hereinafter referred to as HUGHES), a Delaware Corporation, having its principal place of business in El Segundo, California, is desirous of acquiring the entire and exclusive right, title and interest in, to and under said invention, said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world;

NOW, THEREFORE, in consideration of the obligations voluntarily assumed by me and set forth in an invention agreement between me and my employer, effective the date as stated below next to my name, and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign and transfer to HUGHES, its successors, assigns or other legal representatives, the entire and exclusive right, title and interest in and to said invention invented by me, to said application and any and all applications which are continuations, continuations-in-part, divisions or substitutes of said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world on any of said applications and to any and all reexaminations, reissues, renewals or extensions of said Letters Patent in the United States and throughout the world for the full term or terms for which said Letters patent may be granted in the United States and throughout the world; authorize and request The Commissioner of Patents and Trademarks of the United States and all foreign countries to issue all such Letters Patent to said HUGHES, its successors, assigns or other legal representatives; covenant that no assignment, sale, agreement, transfer or encumbrance has been, or will be, made or entered into which would conflict with this assignment, sale and transfer; and agree to communicate to HUGHES, its successors, assigns or other legal representatives, upon request and at no cost or expense to me, any facts known by me respecting said invention, do all lawful acts, including the execution and delivery of all papers and proper oaths and giving of testimony that is deemed necessary or desirable by HUGHES, its successors, assigns or other legal representatives with regard to said invention for protecting, obtaining, maintaining and enforcing any and all of said Letters Patent in the United States and throughout the world for said invention and for perfecting, affirming, recording and maintaining the title of HUGHES, its successors, assigns or other legal representatives, and generally cooperate to the fullest extent in all matters pertaining to said invention, and any and all of said Letters Patent and the title thereto in HUGHES, its successors, assigns or other legal representatives.

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CA1 - 289823.1

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 Attorney Docket No.: 10547-0015-999
 PD-201121
 Page 4 of 5

FULL NAME OF SOLE OR JOINT INVENTOR Vinai Kolli	INVENTOR'S SIGNATURE <i>Vinai Kolli</i>	DATE Nov 27 2001
RESIDENCE (CITY AND STATE) Fremont, California	INVENTION AGREEMENT DATE 01/19/99; 07/21/99 and 01/02/01	

STATE OF CALIFORNIA)COUNTY OF ALAMEDA)

SS:

On November 27, 2001 before me, ANSUYA PHADNIS

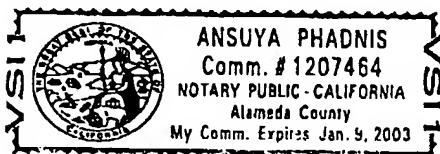
a Notary Public in and for said State, personally appeared

Vinai Kolli

• personally known to me or • proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

Ansuya Phadnis

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HUGHES

ASSIGNMENT

Page 1 of 5
Attorney Docket No.: 10547-0015-999
PD-201121

WHEREAS, I, as below named sole inventor (if only one name is listed below) or joint inventor (if plural names are listed below) of the city and state as stated below next to my name, have invented, **"VIRTUAL PORT BRIDGE"** for which application for Letters Patent of the United States has been executed by me on this day, or (if the following is completed) filed on _____ as Serial No. _____; and

WHEREAS, **HUGHES ELECTRONICS CORPORATION**, (hereinafter referred to as **HUGHES**), a Delaware Corporation, having its principal place of business in El Segundo, California, is desirous of acquiring the entire and exclusive right, title and interest in, to and under said invention, said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world;

NOW, THEREFORE, in consideration of the obligations voluntarily assumed by me and set forth in an invention agreement between me and my employer, effective the date as stated below next to my name, and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign and transfer to HUGHES, its successors, assigns or other legal representatives, the entire and exclusive right, title and interest in and to said invention invented by me, to said application and any and all applications which are continuations, continuations-in- part, divisions or substitutes of said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world on any of said applications and to any and all reexaminations, reissues, renewals or extensions of said Letters Patent in the United States and throughout the world for the full term or terms for which said Letters patent may be granted in the United States and throughout the world; authorize and request The Commissioner of Patents and Trademarks of the United States and all foreign countries to issue all such Letters Patent to said HUGHES, its successors, assigns or other legal representatives; covenant that no assignment, sale, agreement, transfer or encumbrance has been, or will be, made or entered into which would conflict with this assignment, sale and transfer; and agree to communicate to HUGHES, its successors, assigns or other legal representatives, upon request and at no cost or expense to me, any facts known by me respecting said invention, do all lawful acts, including the execution and delivery of all papers and proper oaths and giving of testimony that is deemed necessary or desirable by HUGHES, its successors, assigns or other legal representatives with regard to said invention for protecting, obtaining, maintaining and enforcing any and all of said Letters Patent in the United States and throughout the world for said invention and for perfecting, affirming, recording and maintaining the title of HUGHES, its successors, assigns or other legal representatives, and generally cooperate to the fullest extent in all matters pertaining to said invention, and any and all of said Letters Patent and the title thereto in HUGHES, its successors, assigns or other legal representatives.

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ASSIGNMENT
Attorney Docket No.: 10547-0015-999

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PD-201121
Page 2 of 5

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR Benn Bollay	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) San Francisco, California	INVENTION AGREEMENT DATE 03/17/00	

STATE OF _____)

)

SS:

COUNTY OF _____)

On _____ before me, _____

a Notary Public in and for said State, personally appeared

Benn Bollay

☐ personally known to me or ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public _____

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ASSIGNMENT
Attorney Docket No.: 10547-0015-999
PD-201121
Page 3 of 5

COPY

FULL NAME OF SOLE OR JOINT INVENTOR Vinai Kolli	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) Fremont, California	INVENTION AGREEMENT DATE 01/19/99; 07/21/99 and 01/02/01	

STATE OF _____)

)

SS:

COUNTY OF _____)

On _____ before me, _____

a Notary Public in and for said State, personally appeared

Vinai Kolli

☐ personally known to me or ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public _____

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ASSIGNMENT
Attorney Docket No.: 10547-015-999
PD-201121
Page 5 of 5

FULL NAME OF SOLE OR JOINT INVENTOR Thomas Obenhuber	INVENTOR'S SIGNATURE <i>Thomas Obenhuber</i>	DATE 11/19/01
RESIDENCE (CITY AND STATE) San Francisco, California	INVENTION AGREEMENT DATE 07/07/98	

STATE OF _____)

COUNTY OF _____)

SS:

On _____ before me, _____
a Notary Public in and for said State, personally appeared
Thomas Obenhuber

☐ personally known to me or ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public _____

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